

Valid June 6

Ship June 7

Work Order ID 146320 - 2

146320

Page 1

Tuesday, May 17, 2016 2:56:58 PM

Item ID: D205-665-019 Accept *N19000040100* Setup Start *NS1*

Revision ID: 32115 Stop *NS2*

Item Name: Cable Guard

Start Date: 5/26/2016 Start Qty: 1.00 *1* Cust Item ID:

Required Date: 6/7/2016 Req'd Qty: 1.00 *1* Customer:

Reference:

Approvals: Process Plan: dem Date: 16/05/17 Tooling: _____ Date: _____ Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D205-665	G	MAY 7 5 2016							
100	Document Control	0.00				DAS 27 9-89			
1100									
DC	Memo	0.00							
Doc.Control - USB or Paperwork	PHOTOCOPY BLUE FILE AND CREATE LABELS AS PER FPPD205-665-019 CHG001								
110	Pick Kit	0.00							
1110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00				DAS 27 9-89			
120									
QC	Memo	0.03							
Quality Control									

DAS
6
28
9-89

Work Order ID 146320

146320

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Tuesday, May 17, 2016 2:56:58 PM

Item ID: D205-665-019 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: Cable Guard

Start Date: 5/26/2016 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 6/7/2016 Req'd Qty: 1.00 *1*

Customer:

Reference:

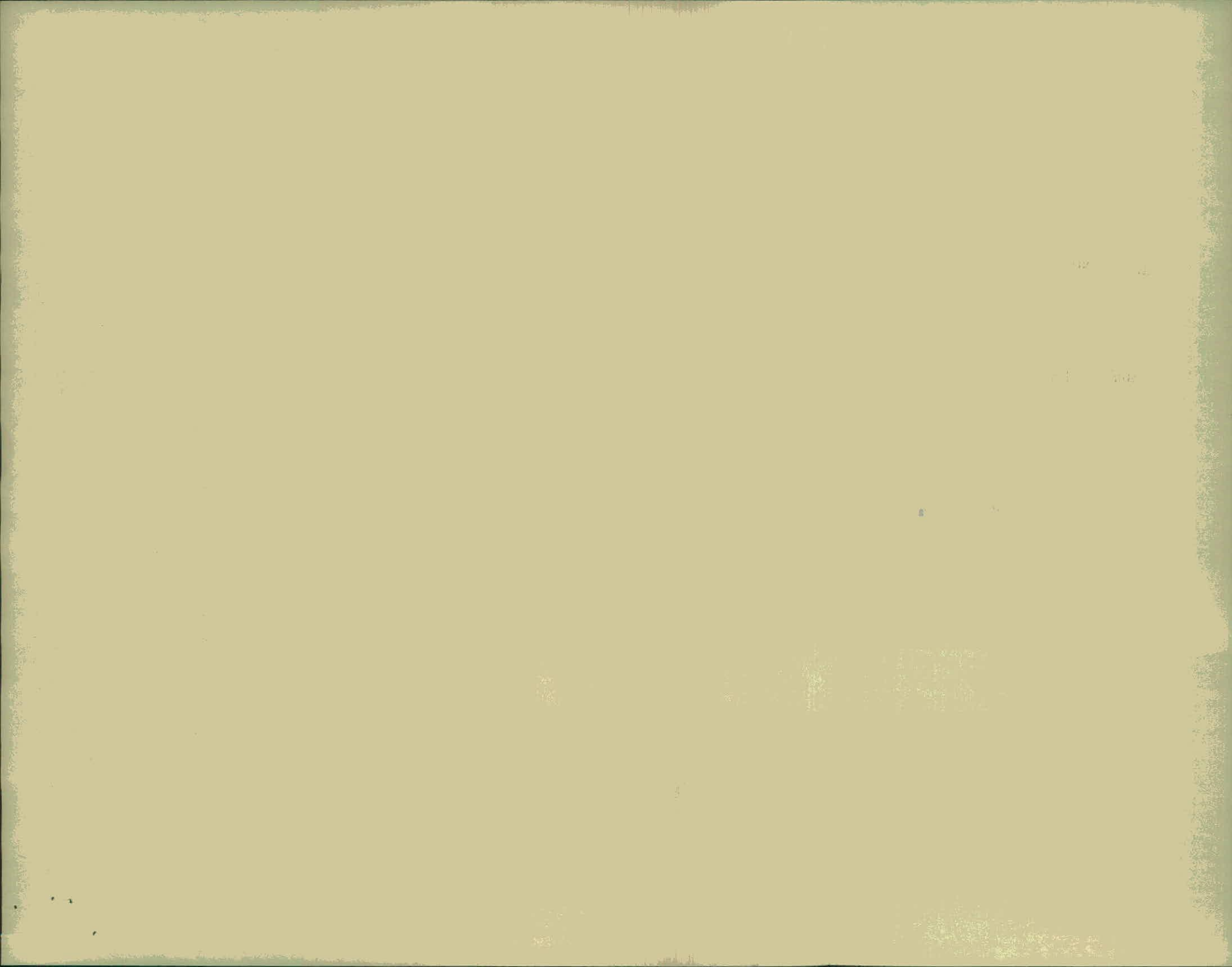
Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D205-665-019								
	Location: <u>120A</u>								
	PPP Rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.10							
Quality Control									

MAS 27 9-89 DAS 28 9-89 JUN 03 2016

MW JUN 03 2016

MW JUN 03 2016



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Page 1

Work Order ID: 146320

146320

Parent Item: D205-665-019

D205-665-019

Parent Item Name: Cable Guard

Start Date: 5/26/2016

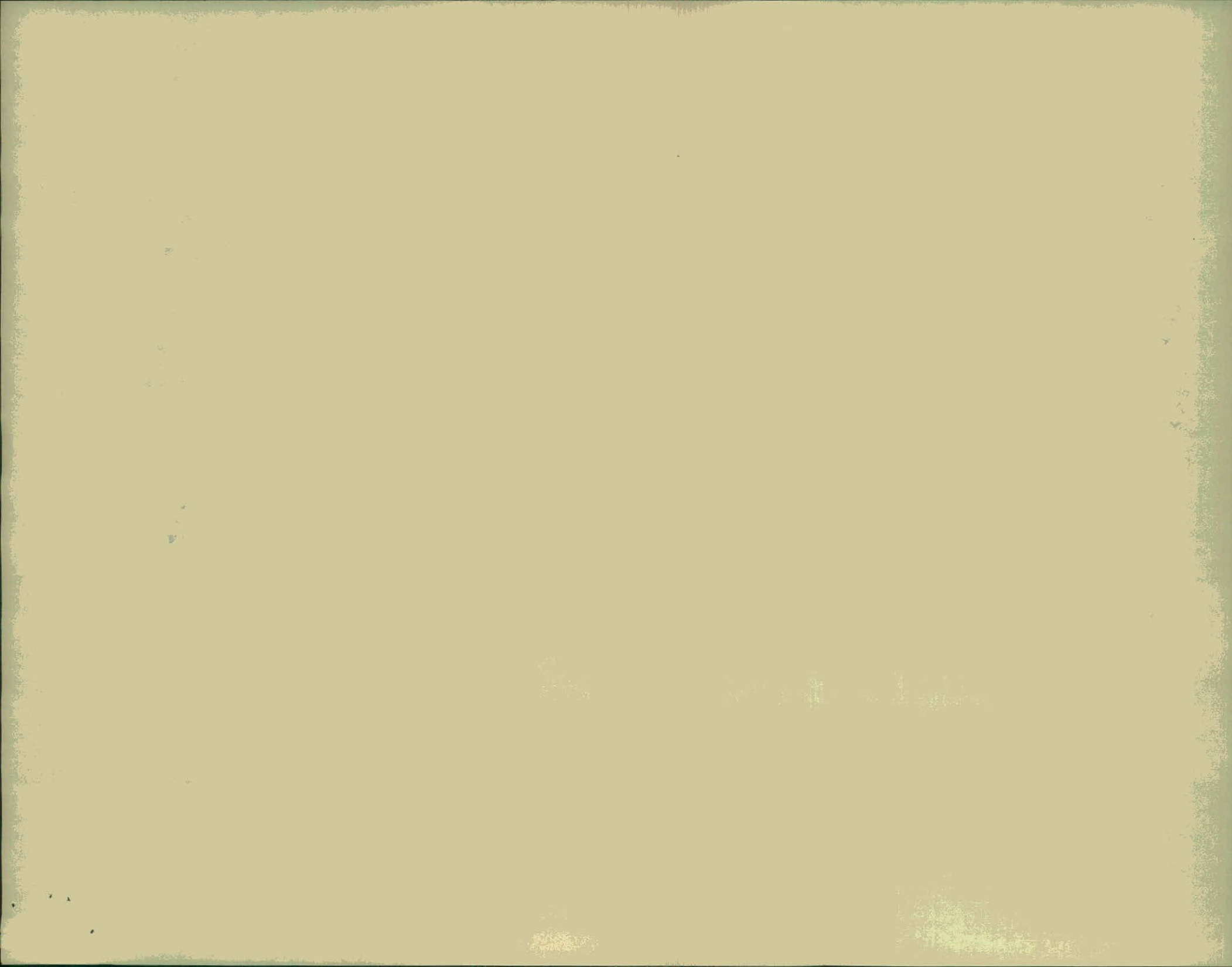
Required Date: 6/7/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 11.11.08 new issue DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2570		Manufactured	No			110	Each	222.0000	10	10.50			
D2570													
Bushing													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				FG			12						
				88781			12						
				FP001			47						
				141497			47						
				ST008			163						
				144376			163						
D4445-1		Manufactured	No			110	Each	0.0000	1	1.5			
D4445-1													
Cable Guard													
D4506-1		Manufactured	No			110	Each	10.0000	1	1.5			
D4506-1													
Washer													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				ST107			10						
				113739			10						
AN4-47A		Purchased	No			110	Each	21.0000	4	4.20			
AN4-47A													
BOLT													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				ST341			21						
				m126193			4						
				m130325			17						



Picklist Print

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Tuesday, May 17, 2016 2:57:05 PM

Work Order ID: 146320

146320

Parent Item: D205-665-019

D205-665-019

Parent Item Name: Cable Guard

Start Date: 5/26/2016

Required Date: 6/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN4-50A

Purchased

No

110

Each

10.0000

1

1 5

AN4-50A

Bolt

AS
27
9-89

Location

Loc Qty

Loc Code

ST340

10

m133694

10

MS21042L4

Purchased

No

110

Each

2,169.000

5

5 25

MS21042L4

Locknut

Location

Loc Qty

Loc Code

GA

187

m133769

187

OVER007

1500

m134676

500

m134762

1000

ST303

385

m134606

385

ST305

97

m130922

97

DAS
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9-89

DAS
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9-89

9-89

MAY 25 2016

AS
27
9-89



INTRODUCTION

Dart D205-665-015/-017/-019 Cable Guard Kits may be installed on the D205-634-011/-111 Skidtube Installations as an option to protect the skidtube from being chafed by hoist kit cables. D205-665-015/-017 are compatible with the Dart D412-673-011 Electric Step Kit, but D205-665-019 is not compatible.

Dart D205-665-011/-013 Cable Guard Kits are similar to the -015/-017 kits; however they are not compatible with the Dart electric step kit. The -011/-013 kits may be installed individually or in combination.

PROCEDURE

D205-665-011/-013 Cable Guard Kits

The D205-665-011/-013 Cable Guard Kits may be installed on the right or left side of the aircraft, and may be installed together or individually:

- 1) Remove D2594-1 Plug c/w D2594-3 O-ring from the guard attachment holes.
- 2) For the -011 only, drill qty(1) Ø0.257" (F drill) hole behind aft saddle as shown in detail B. Deburr and touch up hole with alodine 1200/1201 per MIL-C-5541
- 3) Install D2886-1 (-011) and/or D2886-3 (-013) Guards on outside of skidtube using hardware shown in sections G-G and H-H, located per detail C.
- 4) Note that the guards fit over the saddles and ground handling lugs.
- 5) Torque AN4 bolts 50-70 in-lbs.
- 6) Note if D205-665-011/-013 Cable Guard Kit is being installed with the D205-564-011 Bearpaw Kit, it is acceptable to counterbore the cable guard Ø0.50" x 0.30" deep to clear bearpaw bolts.
- 7) It is acceptable to apply a thin bead of PRC along the fwd/aft edges of the cable guard to smooth the transition from the cable guard to the skidtube and prevent the cable from picking up the edges of the guard.

D205-665-015 Cable Guard Kit

The D205-665-015 Cable Guard Kit may be installed on the right or left side of the aircraft as follows:

- 1) Remove D2594-1 Plug c/w D2594-3 O-ring from the guard attachment holes.
- 2) Drill qty(1) Ø0.257" (F drill) hole in front of forward saddle as shown in detail A. Deburr and touch up hole with alodine 1200/1201 per MIL-C-5541
- 3) Drill qty(1) Ø0.257" (F drill) hole behind aft saddle as shown in detail B. Deburr and touch up hole with alodine 1200/1201 per MIL-C-5541
- 4) Install D2916-1/-3/-5/-7 Guards on outside of skidtube using hardware shown in sections G-G, H-H and J-J, located per Detail D and E
- 5) Note that the guards fit over the saddles and ground handling lugs
- 6) Torque AN4 bolts 50-70 in-lbs.
- 7) Note if D205-665-015 Cable Guard Kit is being installed with the D205-564-011 Bearpaw Kit, it is acceptable to counterbore the cable guard Ø0.50" x 0.30" deep to clear bearpaw bolts.
- 8) It is acceptable to apply a thin bead of PRC along the fwd/aft edges of the cable guard to smooth the transition from the cable guard to the skidtube and prevent the cable from picking up the edges of the guard.

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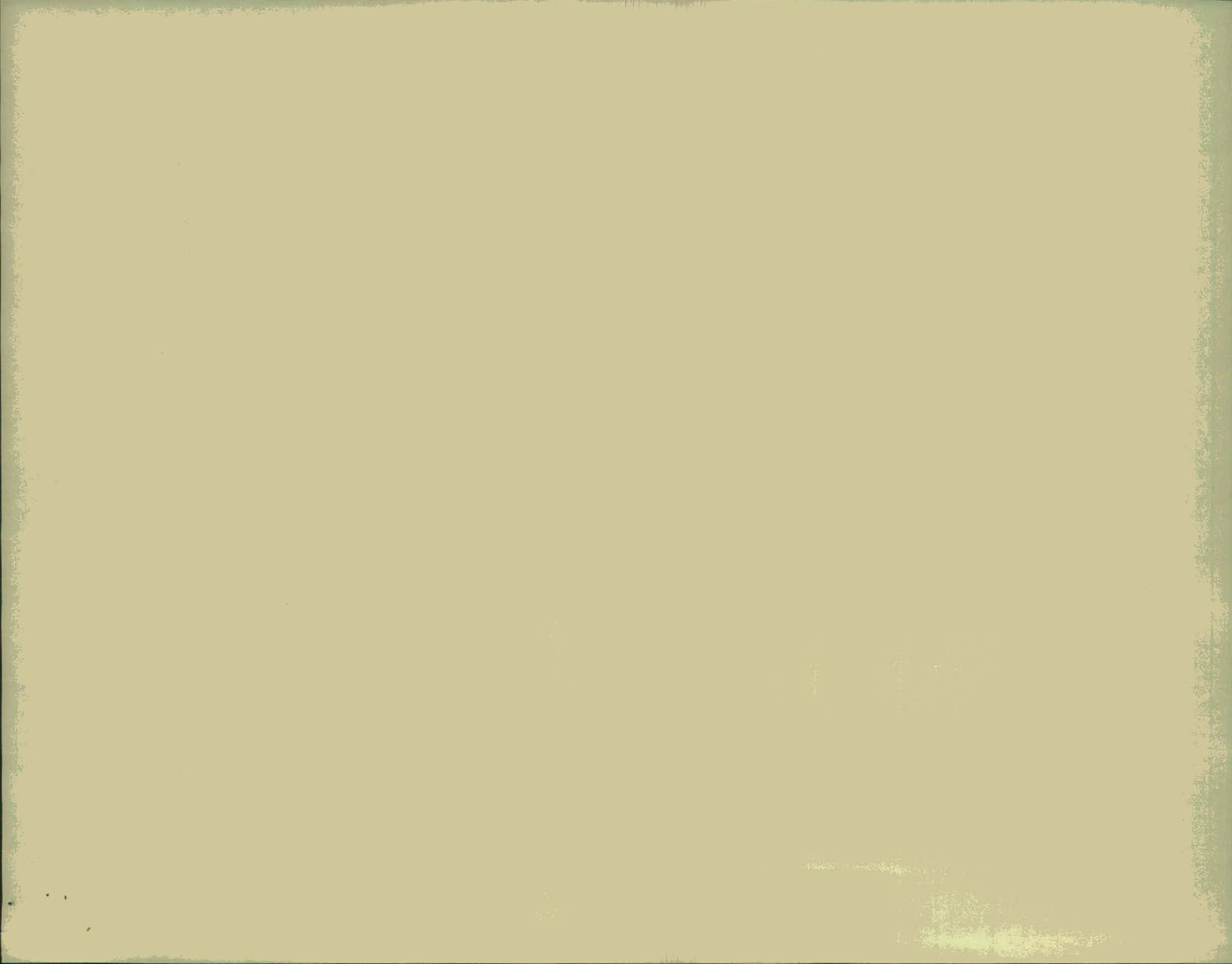
APPROVED

BY:

D. SHEPHERD (DE # 02)

DATE: 12.04.25
CERT. NO.: SH96-88
ISSUE NO.: 3

G	UPDATE -019 KIT FOR INSTALLATION ON INBOARD SIDE OF SKIDTUBE	DC	12.04.25
F	ADD D205-665-019 KIT	RF	11.10.21
E	ADD PRC SEALING OPTION	CP	11.08.09
D	ADD -011/-013 KITS	CP	09.11.12
C	ADD D205-665-017 KIT. EXTENSIVELY REFORMATED, NO REVISION SYMBOLS USED	HS	09.09.03
B	REDESIGN FOR BELL ELECTRIC STEP	CP	99.10.01
A	NEW ISSUE	RF	99.06.24
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD. HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. G
CHECKED		D205-665	SHEET 1 OF 10
MFG. APPR.	N/A	TITLE	SCALE
APPROVED		CABLE GUARD INSTALLATION	NTS
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DATE	12.04.25		



D205-665-017 Cable Guard Kit

The D205-665-017 Cable Guard Kit may be installed on the right or left side of the aircraft as follows:

- 1) Drill qty(1) Ø0.257" (F drill) in front of forward saddle as shown in detail A.
- 2) Deburr and touch up hole with alodine 1200/1201 per MIL-C-5541
- 3) Install D3990-1 Guard on outside of skidtube using hardware shown in sections G-G and H-H, located per Detail F.
- 4) Note that the D3990-1 Guard fits over the forward saddle.
- 5) Torque AN4 bolts 50-70 in-lbs.
- 6) It is acceptable to apply a thin bead of PRC along the fwd/aft edges of the cable guard to smooth the transition from the cable guard to the skidtube and prevent the cable from picking up the edges of the guard.

D205-665-019 Cable Guard Kit

The D205-665-019 Cable Guard Kit may be installed on the right or left side of the aircraft and on either the inboard or outboard side of the skidtube as follows:

- 1) Remove D2594-1 Plug c/w D2594-3 o-ring from the guard attachment holes.
- 2) Install D4445-1 Guard on inboard/outboard side of skidtube per Detail K using hardware shown in sections L-L, M-M, N-N and O-O as applicable. Note that the bolt heads should be on the side of the skidtube with the cable guard.
- 3) Note that the guard fits over the ground handling lugs and the run-on landing wearplates (if installed).
- 4) Torque AN4 bolts 50-70 in-lbs.
- 5) Note if D205-665-019 Cable Guard Kit is being installed with the D205-564-011 Bearpaw Kit, it is acceptable to counterbore the cable guard Ø0.50" x 0.30" deep to clear bearpaw bolts.
- 6) It is acceptable to apply a thin bead of PRC along the fwd/aft edges of the cable guard to smooth the transition from the cable guard to the skidtube and prevent the cable from picking up the edges of the guard.

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DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY:

D. SHEPHERD (DE # 02)

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DRAWN		DRAWING NO.	REV. G
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PARTS LIST

QTY -011	QTY -013	QTY -015	QTY -017	QTY -019	PART NUMBER	DESCRIPTION
X					D205-665-011	CABLE GUARD INSTALLATION
	X				D205-665-013	CABLE GUARD INSTALLATION
		X			D205-665-015	CABLE GUARD INSTALLATION
			X		D205-665-017	CABLE GUARD INSTALLATION
				X	D205-665-019	CABLE GUARD INSTALLATION
1					D2886-1	GUARD
	1				D2886-3	GUARD
			1		D3990-1	GUARD
		1			D2916-1	GUARD
		1			D2916-3	GUARD
		1			D2916-5	GUARD
		1			D2916-7	GUARD
		4			D2915	BUSHING
1		2	1		D2529	WASHER
6	6	8	2	10	D2570	BUSHING
				1	D4445-1	GUARD
				1	D4506-1	WASHER
4	3	4	2	4	AN4-47A	BOLT
				1	AN4-50A	
		4			AN4-55A	BOLT
4	3	8	2	5	MS210-42L4 (OR -4)	NUT
1		2	1		NAS11-49D0463J	WASHER (OR AN960JD416)

WEIGHT AND BALANCE

Installation	Weight	Longitudinal	
		Arm	Moment
D205-665-011	2.22 lb 1.01 kg	145.2 in 3.69 m	322 in-lb 3.73 m-kg
D205-665-013	2.20 lb 1.00 kg	101.7 in 2.58 m	224 in-lb 2.58 m-kg
D205-665-015	6.96 lb 3.16 kg	117.2 in 2.97 m	816 in-lb 9.40 m-kg
D205-665-017	0.70 lb 0.32 kg	68.5 in 1.74 m	48 in-lb 0.56 m-kg
D205-665-019	4.81 lb 2.18 kg	118.7 in 3.01 m	571 in-lb 6.56 m-kg

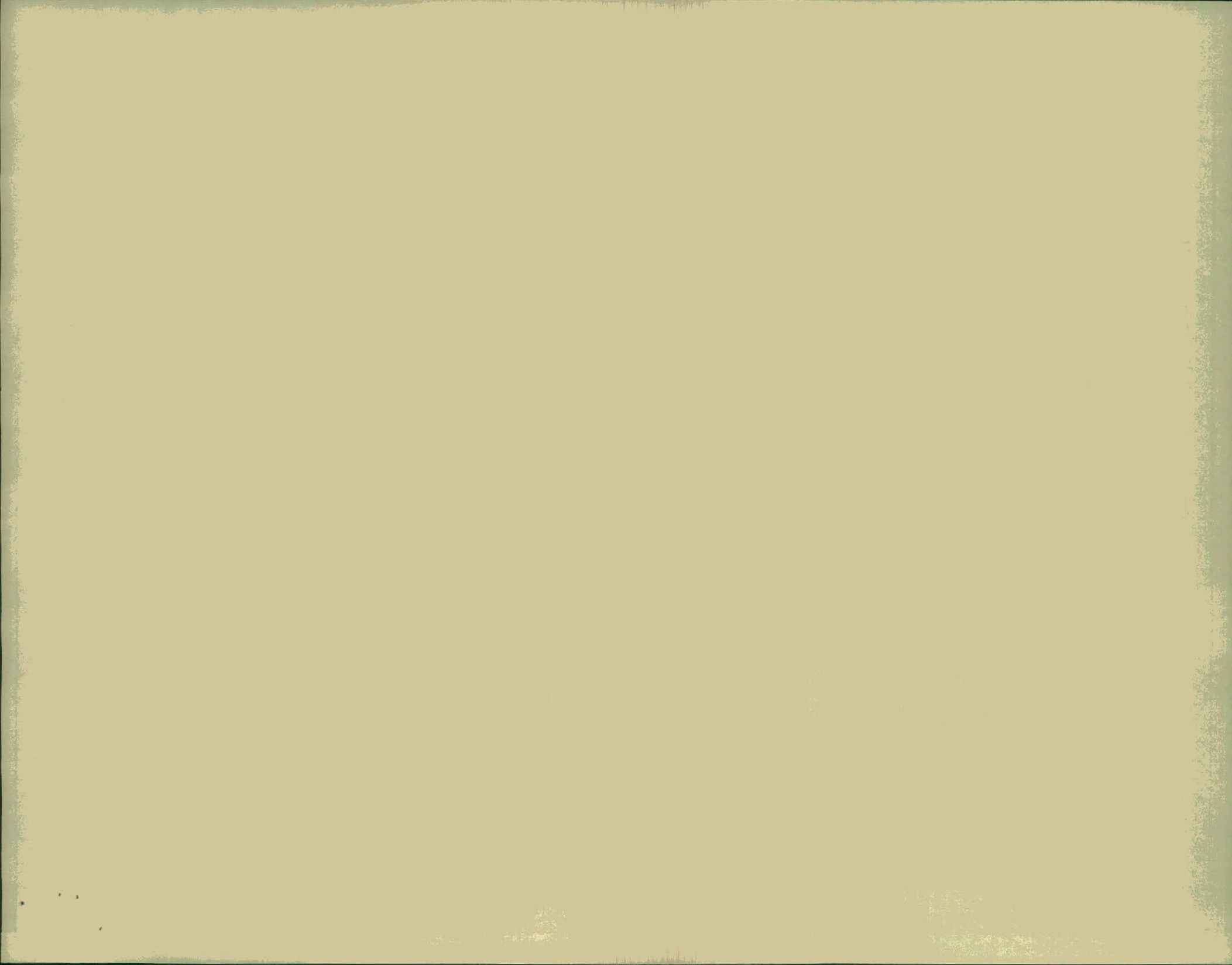
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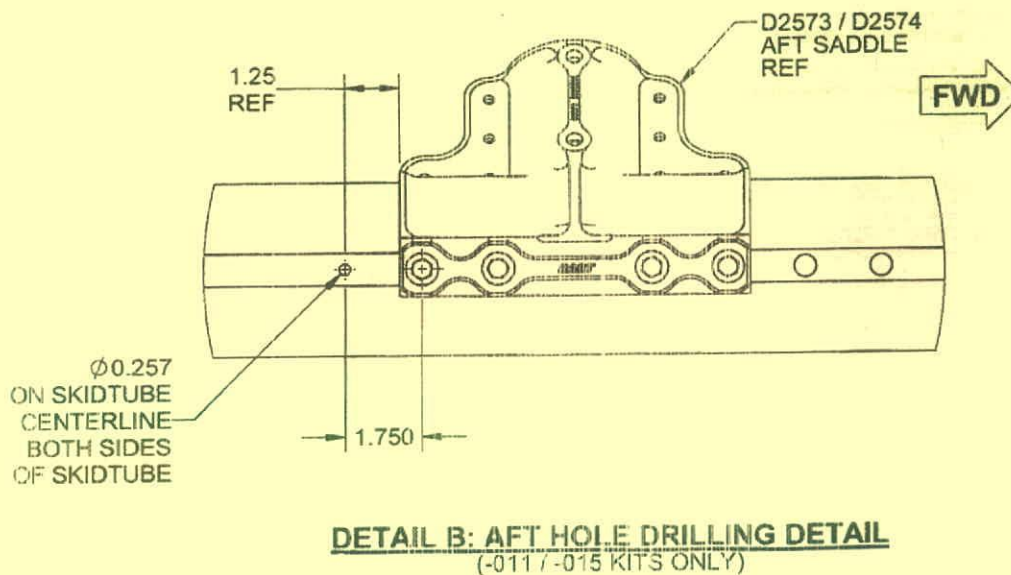
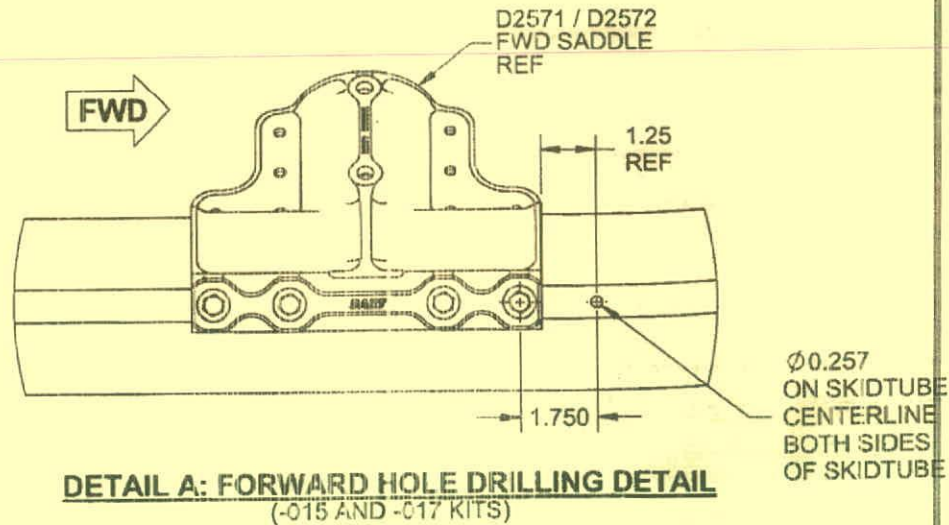
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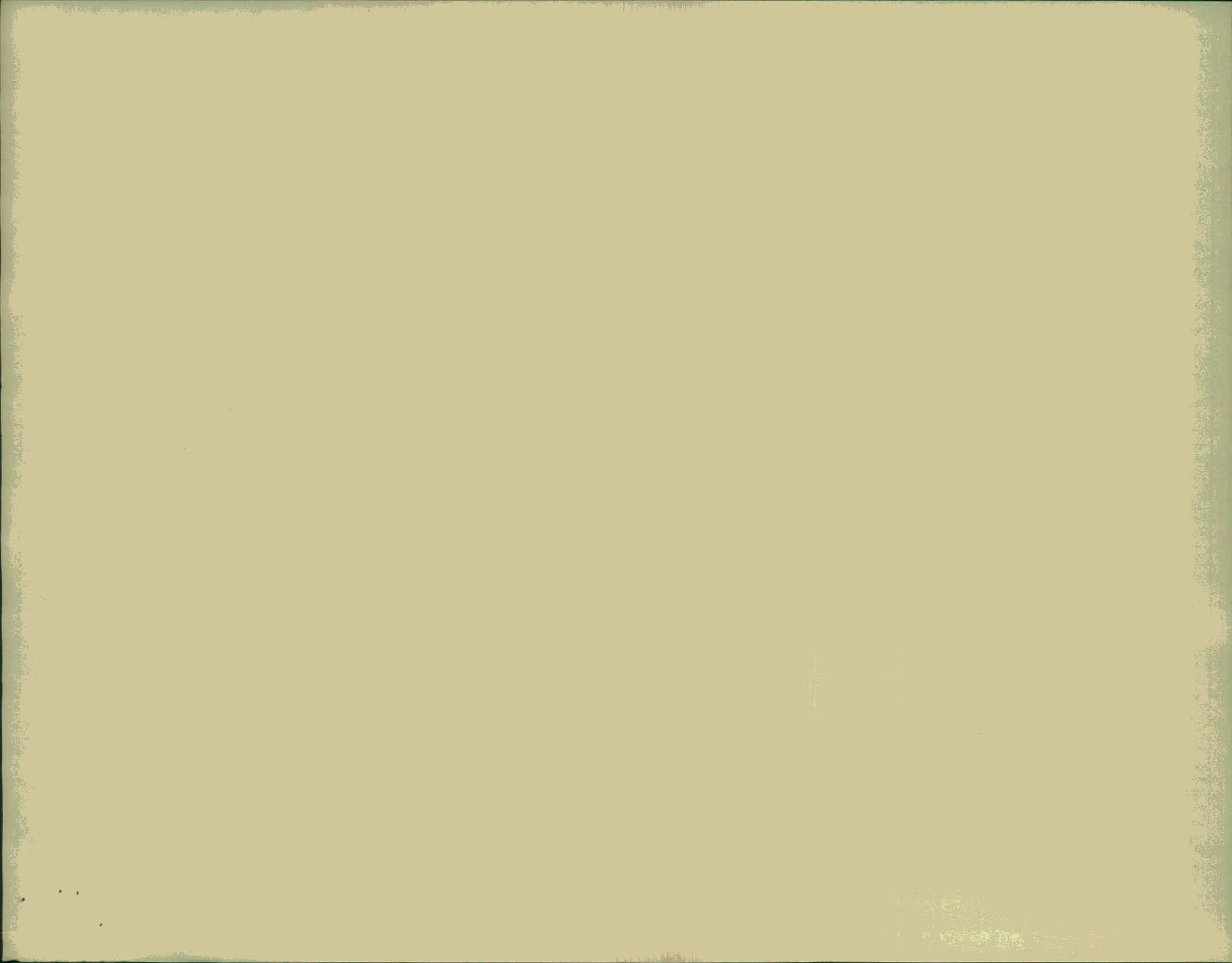


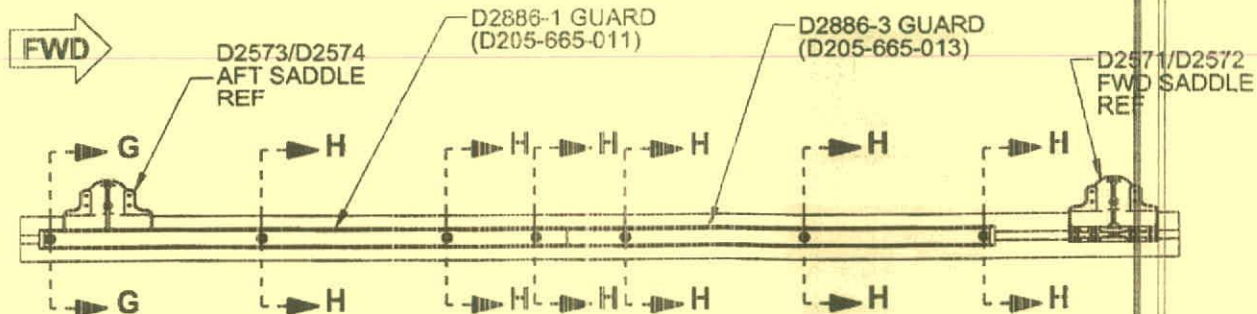
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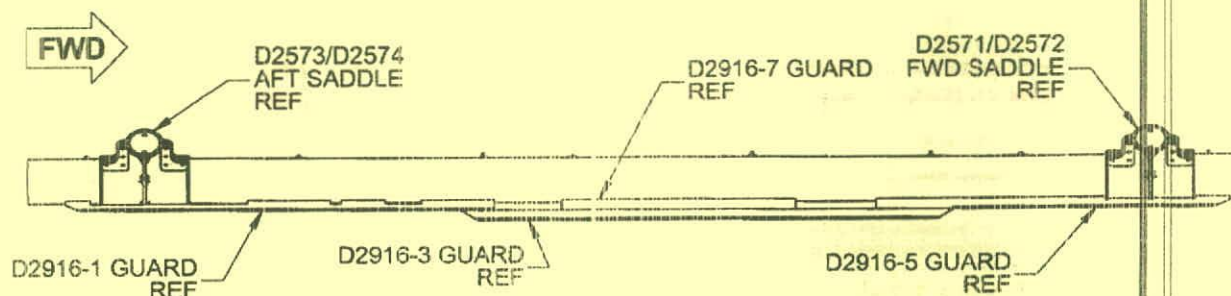
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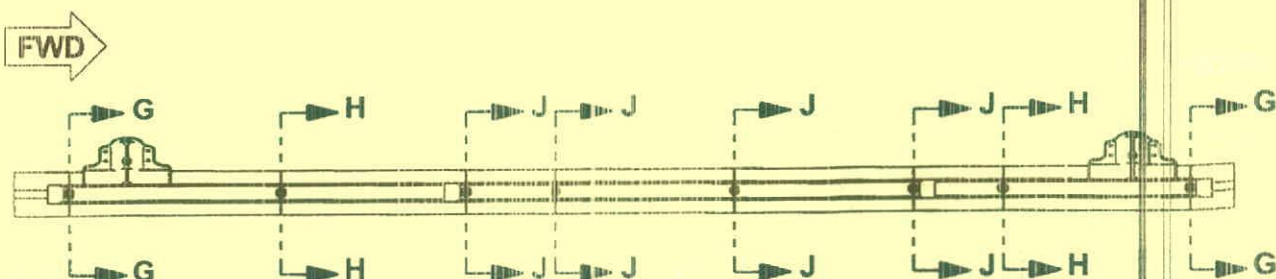




DETAIL C: D205-665-011/-013 CABLE GUARD PLACEMENT
(VIEW LOOKING INBOARD)



DETAIL D: D205-665-015 CABLE GUARD PLACEMENT
(VIEW LOOKING DOWN)



DETAIL E: D205-665-015 CABLE GUARD INSTALLATION
(VIEW LOOKING INBOARD)

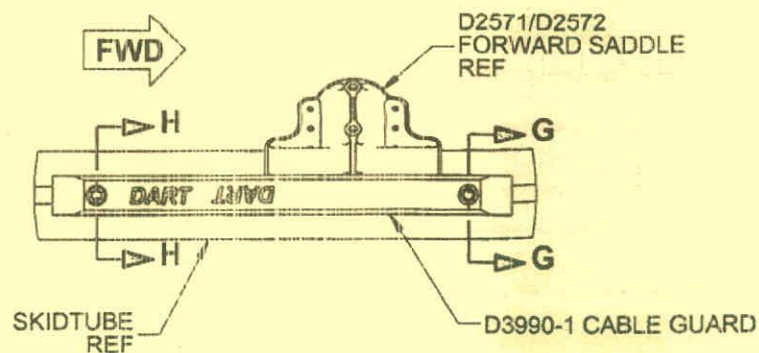
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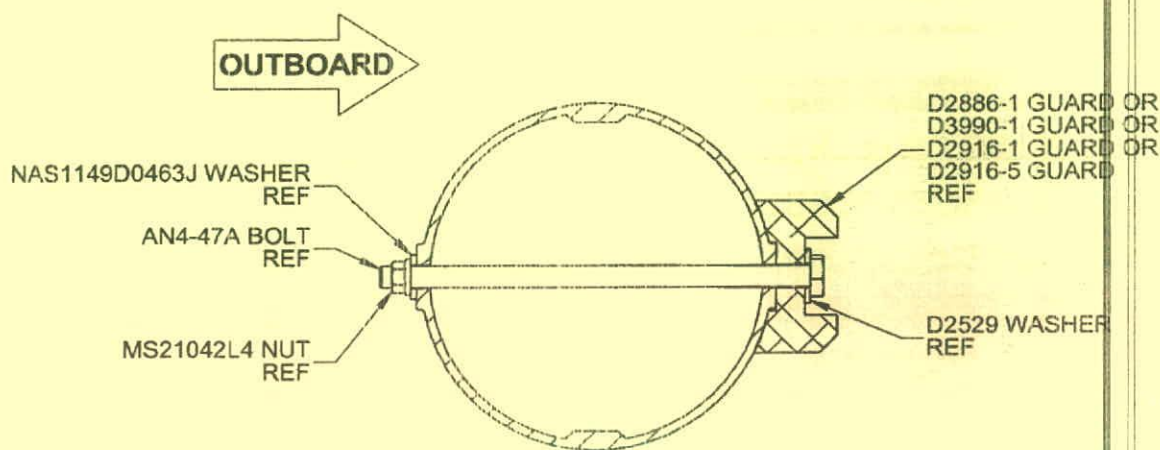
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DETAIL F: D205-665-017 CABLE GUARD INSTALLATION



SECTION G-G

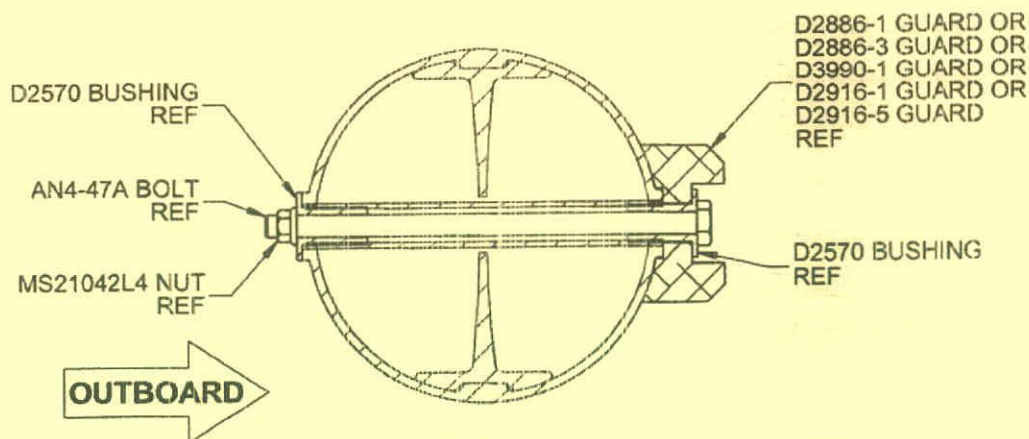
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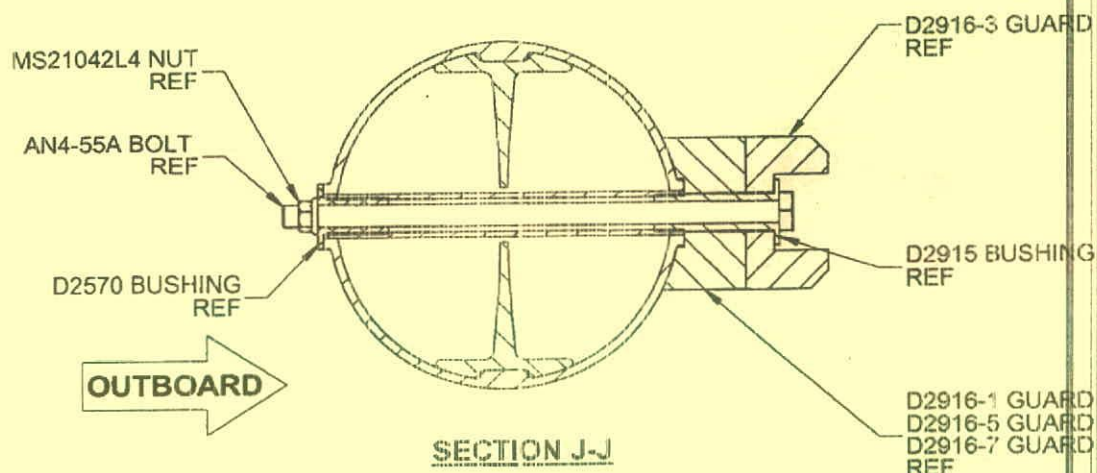
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SECTION H-H



SECTION J-J

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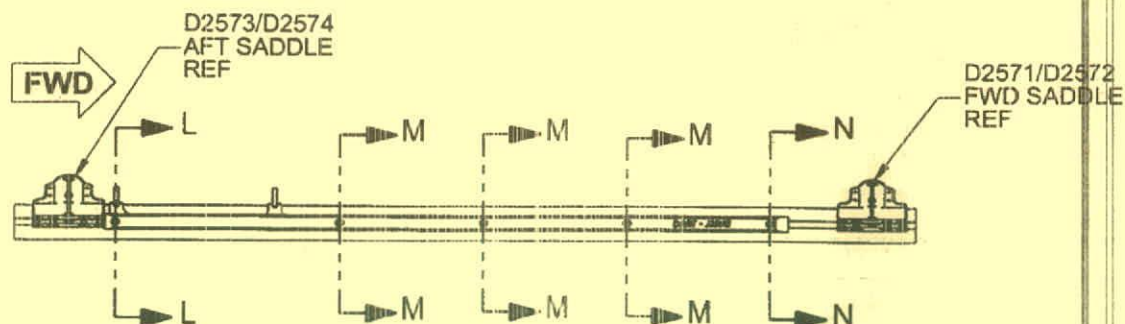
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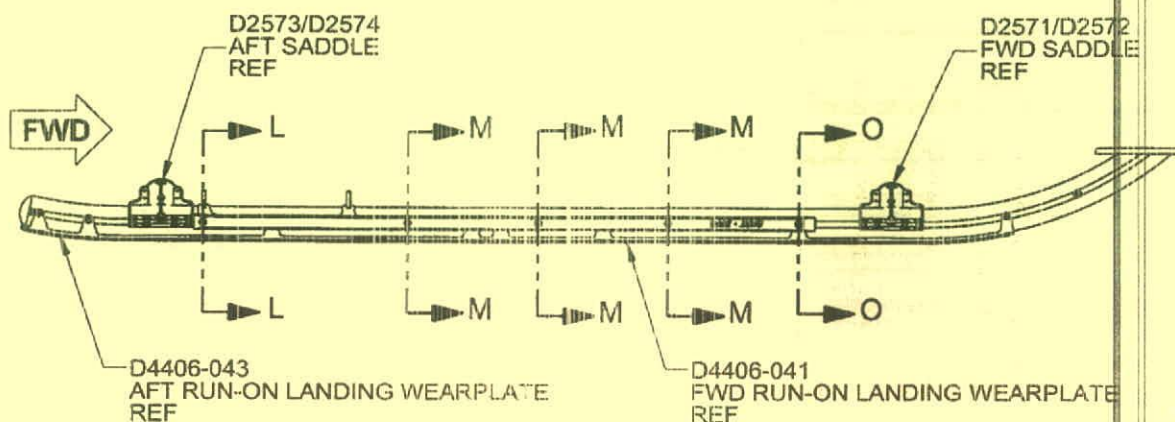
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DETAIL K: D205-665-019 CABLE GUARD INSTALLATION
(VIEW LOOKING INBOARD)
(OUTBOARD INSTALLATION SHOWN, INBOARD INSTALLATION SIMILAR)



DETAIL K: D205-665-019 CABLE GUARD INSTALLATION WITH RUN-ON LANDING WEARPLATE
(VIEW LOOKING INBOARD)
(OUTBOARD INSTALLATION SHOWN, INBOARD INSTALLATION SIMILAR)

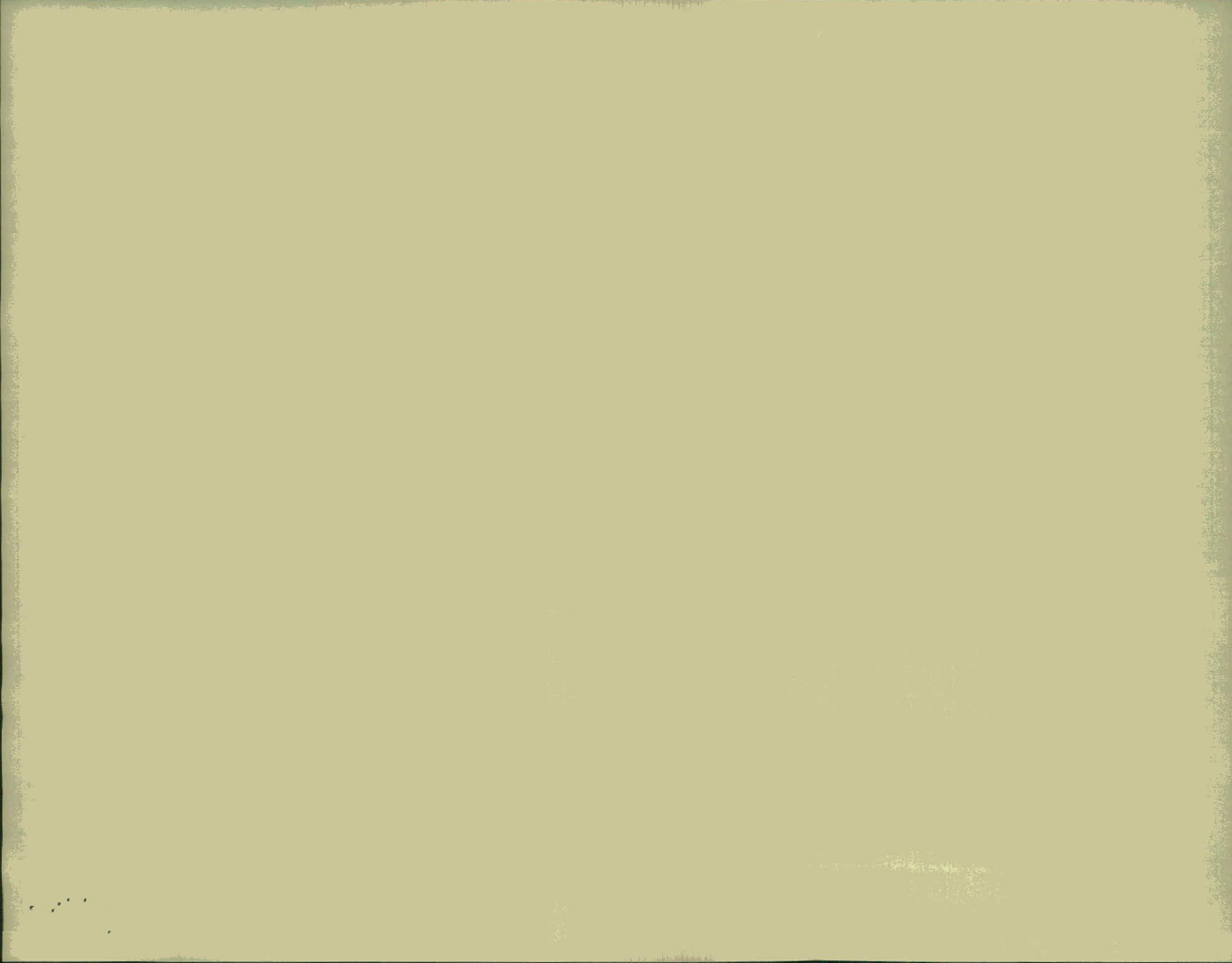
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D3405-043 LUG ASSEMBLY
REF

D2570 BUSHING

MS21042L4 NUT

AN4-50A BOLT

D4445-1 GUARD

BOLT HEAD MUST BE
ON GUARD SIDE

D2570 BUSHING

OUTBOARD

SECTION L-L
(INBOARD INSTALLATION OPPOSITE)

D2570 BUSHING

MS21042L4 NUT

AN4-47A BOLT

D4445-1 GUARD

BOLT HEAD MUST BE
ON GUARD SIDE

D2570 BUSHING

OUTBOARD

SECTION M-M
(INBOARD INSTALLATION OPPOSITE)

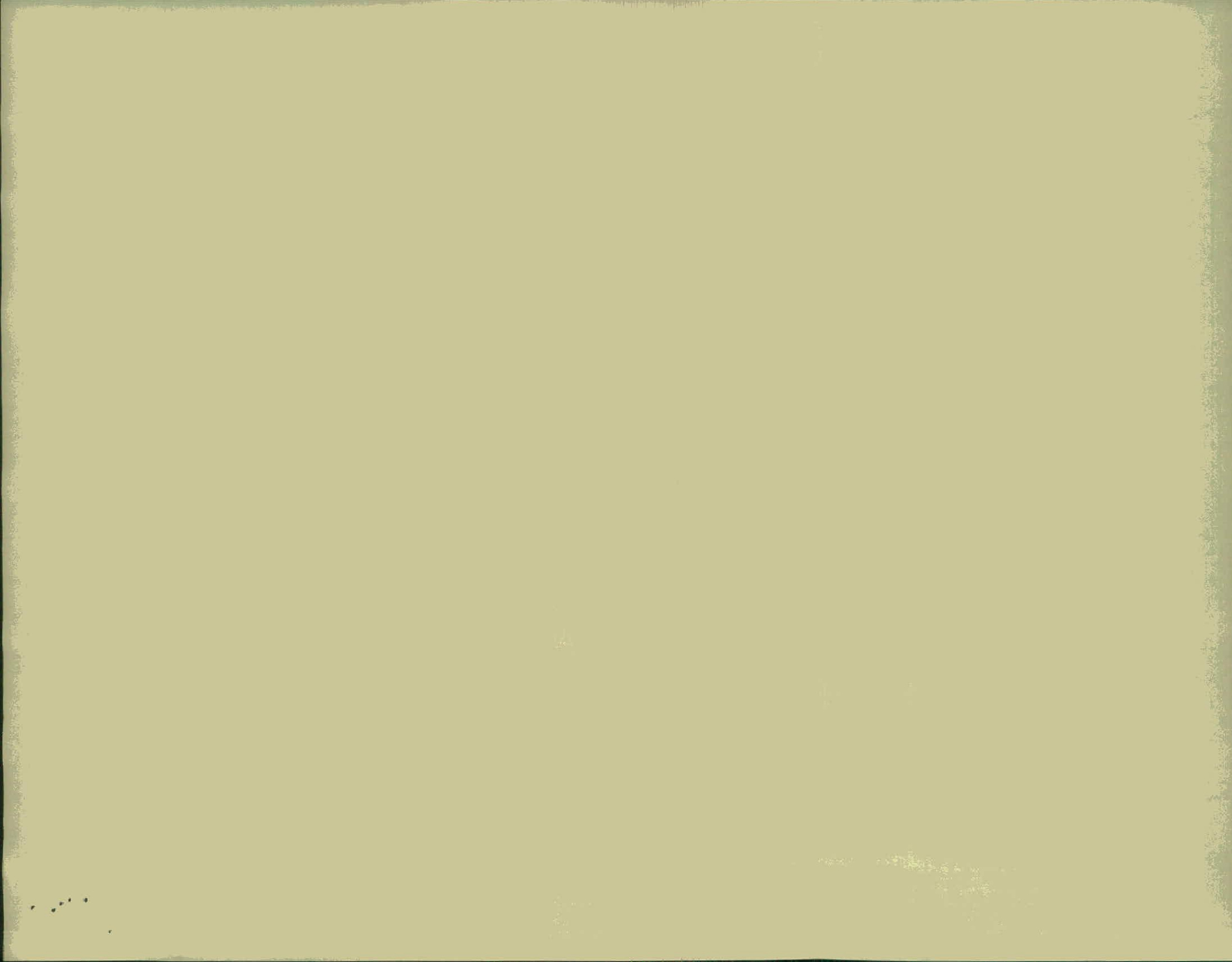
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

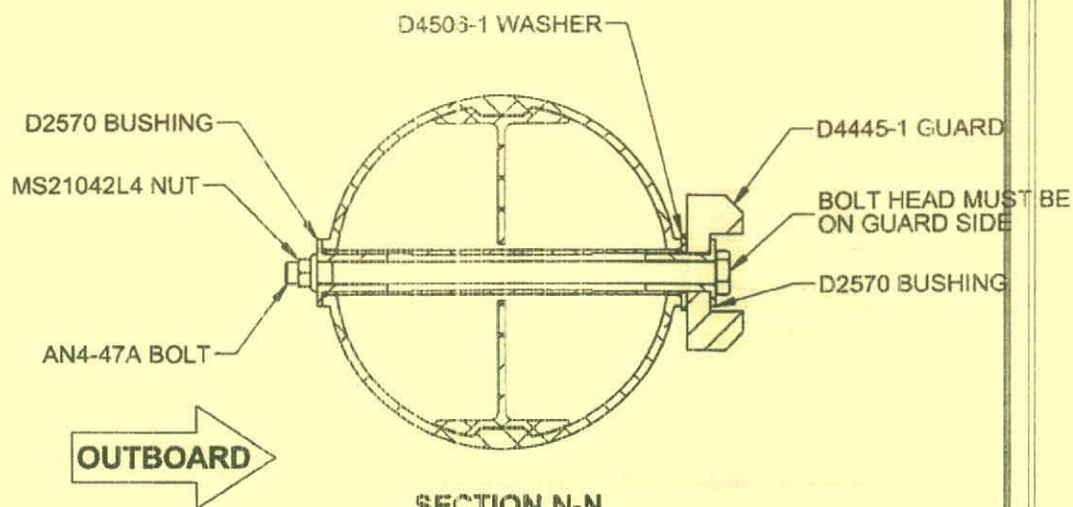
APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

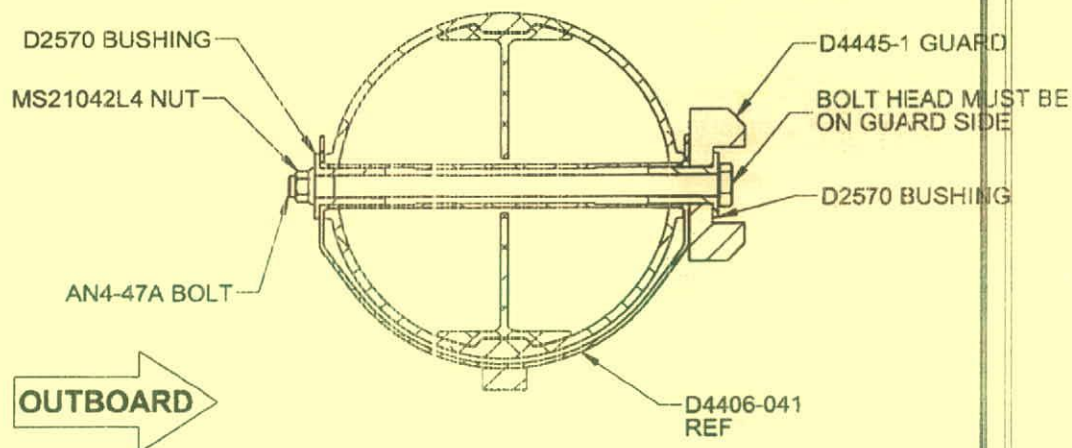
DATE: 12.04.25
CERT. NO.: SH96-88
ISSUE NO.: 3

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. G
MFG. APPR.	N/A	D205-665	SHEET 9 OF 10
APPROVED		TITLE	SCALE
DE APPR.		CABLE GUARD INSTALLATION	NTS
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SECTION N-N
(INBOARD INSTALLATION OPPOSITE)



SECTION O-O
(INBOARD INSTALLATION OPPOSITE)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D205-634 REV. B OR LATER APPROVED REVISION

REF. TCCA STC: SH96-88
REF. FAA STC: SR00563NY
REF. EASA IM.R.S.01303
REF. JAPANESE STC: STC-55-1-TYO

THE FOLLOWING OPTIONAL KITS MAY BE PURCHASED FROM DART AEROSPACE AND ARE APPROVED FOR INSTALLATION ON DART D205-634-XXX SKIDTUBES

KIT	DESCRIPTION	INSTALLATION INSTRUCTIONS	PURPOSE
D205-665-011	CABLE GUARD KIT	D205-665 REV. F OR LATER APPROVED REVISION	TO PROTECT THE SKIDTUBES FROM DAMAGE FROM HOIST KIT CABLES
D205-665-013	CABLE GUARD KIT	D205-665 REV. F OR LATER APPROVED REVISION	TO PROTECT THE SKIDTUBES FROM DAMAGE FROM HOIST KIT CABLES
D205-665-015	CABLE GUARD KIT	D205-665 REV. F OR LATER APPROVED REVISION	TO PROTECT THE SKIDTUBES FROM DAMAGE FROM HOIST KIT CABLES
D205-665-017	CABLE GUARD KIT	D205-665 REV. F OR LATER APPROVED REVISION	TO PROTECT THE SKIDTUBES FROM DAMAGE FROM HOIST KIT CABLES
D205-665-019	CABLE GUARD KIT	D205-665 REV. F OR LATER APPROVED REVISION	TO PROTECT THE SKIDTUBES FROM DAMAGE FROM HOIST KIT CABLES
D412-666-011	GROSS WEIGHT TOWING KIT	D412-666 REV. C OR LATER APPROVED REVISION	TO ALLOW FOR GROSS WEIGHT TOWING OF THE AIRCRAFT IN ACCORDANCE WITH BHT-412-SI-58
D412-673-011	ELECTRIC STEP ADAPTATION KIT	D412-673 REV. C OR LATER APPROVED REVISION	TO ALLOW INSTALLATION OF BELL 212-706-105-003 ELECTRIC RETRACTING STEPS
D412-824-011	SKIDTUBE STEP KIT	IIN-D412-324 REV. A OR LATER APPROVED REVISION	TO ALLOW INSTALLATION OF SKIDTUBE STEP
D412-1008-011	SKI CLAMP KIT INSTALLATION	D412-1008 REV. A OR LATER APPROVED REVISION	TO ALLOW INSTALLATION OF L8500R-1/2 AIRGLAS SKI

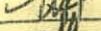
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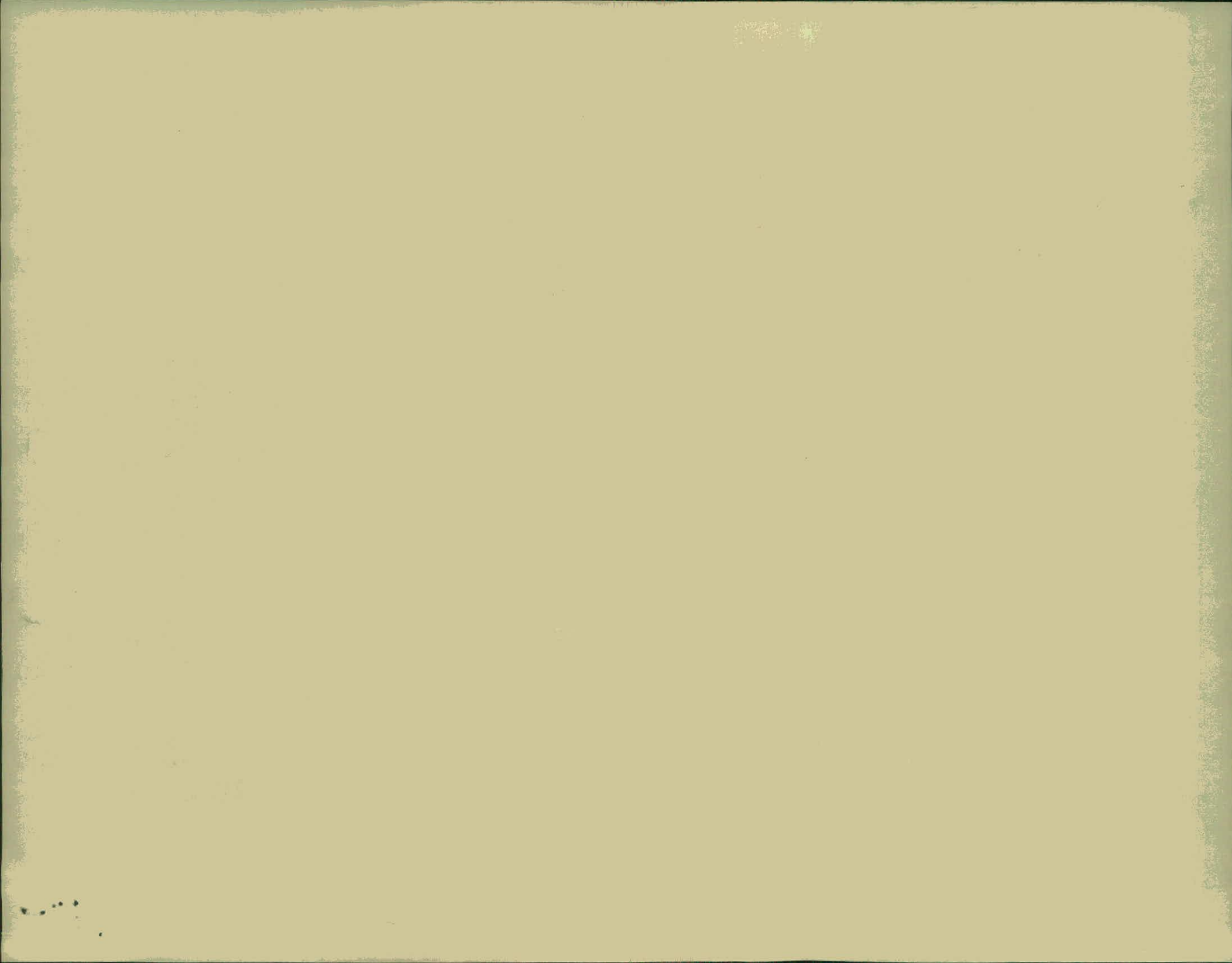
APPROVED

BY: 
D. SHEPHERD (DE #02)

DATE: 14.04.08
CERT. NO.: SH96-88
ISSUE NO.: 3

G	ADD D412-1008-011	AJS	14.04.08
F	ADD D412-824-011	RP	12.08.31
E	ADD D205-665-019	RF	11.10.31
D	ADD D205-665-011/013	CP	09.11.12
C	ADD D205-665-017; REFORMAT	HS	09.09.08
B	ADD D412-673-011	CP	99.10.01
A	NEW ISSUE	CP	99.04.08
REV.	DESCRIPTION	BY	DATE

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MFG. APPR.	N/A	DSI 9152	SHEET 1 OF 1
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DE APPR.		OPTIONAL SKIDTUBE KITS	NTS
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REFERENCE ONLY

PARTS LIST

QTY -011	QTY -013	QTY -015	QTY -017	QTY -019	PART NUMBER	DESCRIPTION
X					D205-665-011	CABLE GUARD INSTALLATION
	X				D205-665-013	CABLE GUARD INSTALLATION
		X			D205-665-015	CABLE GUARD INSTALLATION
			X		D205-665-017	CABLE GUARD INSTALLATION
				X	D205-665-019	CABLE GUARD INSTALLATION
1					D2886-1	GUARD
	1				D2886-3	GUARD
			1		D3990-1	GUARD
		1			D2916-1	GUARD
		1			D2916-3	GUARD
		1			D2916-5	GUARD
		1			D2916-7	GUARD
		4			D2915	BUSHING
1		2	1		D2529	WASHER
6	6	8	2	10	D2570	BUSHING
				1	D4445-1	GUARD
				1	D4506-1	WASHER
4	3	4	2	4	AN4-47A	BOLT
				1	AN4-50A	
		4			AN4-55A	BOLT
4	3	8	2	5	MS21042L4 (OR -4)	NUT
1		2	1		NAS1149D0463J	WASHER (OR AN960JD416)

WEIGHT AND BALANCE

Installation	Weight	Longitudinal	
		Arm	Moment
D205-665-011	2.22 lb 1.01 kg	145.2 in 3.69 m	322 in-lb 3.73 m-kg
D205-665-013	2.20 lb 1.00 kg	101.7 in 2.58 m	224 in-lb 2.58 m-kg
D205-665-015	6.96 lb 3.16 kg	117.2 in 2.97 m	816 in-lb 9.40 m-kg
D205-665-017	0.70 lb 0.32 kg	68.5 in 1.74 m	48 in-lb 0.56 m-kg
D205-665-019	4.81 lb 2.18 kg	118.7 in 3.01 m	571 in-lb 6.56 m-kg

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: M81
D. SHEPHERD (DE # 02)

DATE: 12.04.25
CERT. NO.: SH96-88
ISSUE NO.: 3

DESIGN	<u>AS</u>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<u>BC</u>		
CHECKED	<u>AS</u>	DRAWING NO. D205-665	REV. G
MFG. APPR.	N/A		SHEET 3 OF 10
APPROVED	<u>AS</u>	TITLE	SCALE
DE APPR.	<u>AS</u>	CABLE GUARD INSTALLATION	NTS
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